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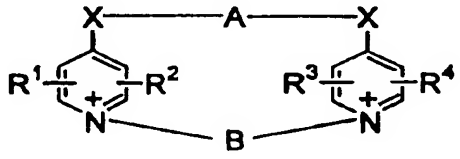
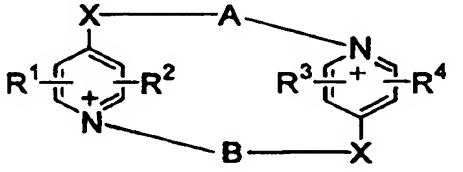
(54) Title: POTASSIUM CHANNEL BLOCKERS

(57) Abstract

A series of compounds for blocking calcium activated potassium channels in rat sympathetic neurones and other mammalian cells, and a method for producing them. These compounds with general formulae (I) and (II), where A and B are spacing groups of 3 to 15 carbon atoms Q^- is the conjugate base of an acid, R^1 and R^4 are for example (a), R^2 and R^3 are for example H, and X is for example NH, exhibit a high potency and are expected to show selectivity between different channel types. The compounds may be useful in the treatment of a number of disorders that are associated with the activity of calcium activated potassium channels, e.g. myotonic muscular dystrophy, gastrointestinal dysmotilities, memory disorders, cancers, narcolepsy and ethanol-induced narcosis. The compounds may also be useful as antibacterial agents.



(I)



(II)

(a)